

# HDAC4 Polyclonal antibody

Catalog Number: 29252-1-AP

## Basic Information

**Catalog Number:**

29252-1-AP

**Size:**

900 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG30752

**GenBank Accession Number:**

BC039904

**GeneID (NCBI):**

9759

**UNIPROT ID:**

P56524

**Full Name:**

histone deacetylase 4

**Calculated MW:**

972 aa, 106 kDa

**Observed MW:**

120-140 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Species Specificity:**

Human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : HEK-293T cells, HeLa cells, Jurkat cells

IHC : human ovary tumor tissue, human lung cancer tissue

## Background Information

HDAC4 (Histone deacetylase 4) belongs to class II of the histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. Histone deacetylation gives a tag for epigenetic repression and plays a role in transcriptional regulation, cell cycle progression and developmental events. It is involved in muscle maturation by its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D. HDAC4 is required for TGFbeta1-induced myofibroblastic differentiation (PMID: 17610967). HDAC4 encoded by an allele associated with mental retardation is a gain-of-function nuclear repressor that abolishes transcription and synaptic transmission (PMID: 23141539).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

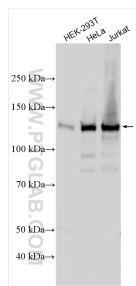
T: 4006900926

E: Proteintech-CN@ptglab.com

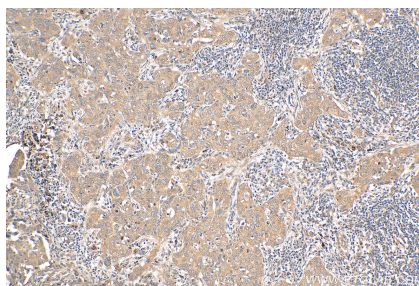
W: ptgcn.com

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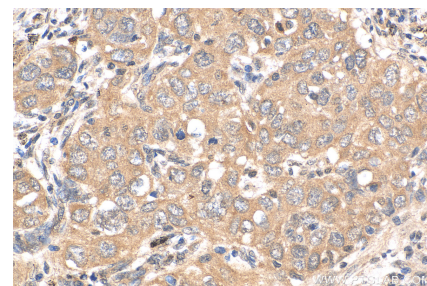
## Selected Validation Data



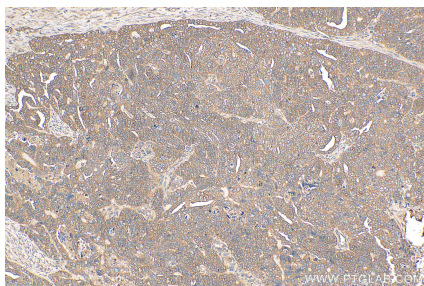
Various lysates were subjected to SDS PAGE followed by western blot with 29252-1-AP (HDAC4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



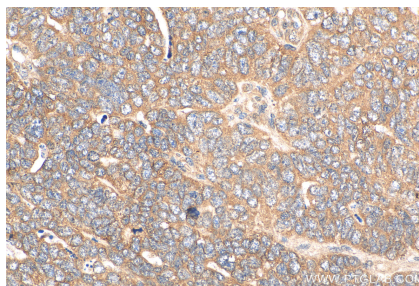
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 29252-1-AP (HDAC4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 29252-1-AP (HDAC4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 29252-1-AP (HDAC4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 29252-1-AP (HDAC4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).